

In The Abstract

Please amend the abstract as follows:

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An electro-modulating device for modulating light from a light source, as part of an opto-electronic communication network has a modulating medium for modulating light passing therethrough by varying an electric field applied across the modulating medium, an optical input-output surface, a light reflector, and electrodes for applying the varying electric field across the modulating medium. The input-output surface, the medium and the reflector are arranged so that light enters the medium through the input-output surface, travels through the medium towards the reflector, is reflected by the reflector to travel back through the medium towards the input-output surface, and exits the medium through the input-output surface. The electric field is transverse to light traversing the medium between the input-out surface and the reflector, to make it easier to couple an optic fibre to the input-output surface of the modulating medium.

In The Claims

Please amend the claims as follows:

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1. (Amended) An electro-modulating device comprising a modulating element, the modulating element having a modulating medium for modulating light passing therethrough, an optical input-output surface by which light both enters the medium prior to modulation of the light and exits the medium after modulation of the light, a light reflector, and electrodes for applying an electric field across the modulating medium, wherein:

the input-output surface, the medium and the reflector are arranged so that light enters the medium through the input-output surface, travels through the medium towards the reflector, is reflected by the reflector to travel back through the medium towards the input-output surface, and exits the medium through the input-output surface;

the electric field is transverse to the direction of propagation of light traversing the medium between the input-output surface and the reflector; and